

## Richard Wyatt Ph.D., PE, CPE, CSP, CQE

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### Responsibilities

Richard is a Senior Consultant within our Casualty Risk Control Practice. Richard's current responsibilities include developing and executing client-driven solutions that reduce risk and elevate workplace productivity through proven risk control, ergonomics, lean and six sigma tools and techniques. He provides scientific validation on musculoskeletal claims with questionable work-relatedness and testifies in workers compensation cases. Richard also advises clients in cumulative trauma prevention techniques and engineering interventions to control losses and improve employee productivity.

### Experience

Richard first began working in the industry in 1981. Prior to joining Aon, Richard served as a Senior Ergonomics Consultant at The Travelers Insurance Company. He has also worked as an Industrial Engineer, as well as Process and Quality Engineer for PPG Industries and GTE Products Corporation. Richard has also been with Aon for 20 years.

### Expertise

Richard holds a Professional Engineering (PE) license in Alabama and North Carolina. He is a Certified Professional Ergonomist (CPE), a Certified Safety Professional (CSP), and Certified Quality Engineer (CQE). He has conducted ergonomic training for a variety of customers in retail, manufacturing, leisure, food, and hospitality-related industries. He has trained ergonomic and continuous-improvement teams in ergonomic principles and created detailed physical job demand data for use in pre-hire and return-to-work applications. Richard also has spoken at 29 national and regional Safety, Ergonomic and Industrial Engineering conferences, and has 22 peer-reviewed journal papers and articles.

### Education

Richard earned a Ph.D. in Industrial and Systems Engineering from The University of Alabama in Huntsville, a Masters in Engineering from the University of Louisville, and a Bachelor of Science in Industrial Engineering from West Virginia University.

## **A CASE STUDY ON USE OF INDUSTRIAL ENGINEERING TECHNIQUES TO SOLVE MANUFACTURING ISSUES**

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**Author Note:** Richard Wyatt is a Senior Consultant with Aon Casualty Risk Control in Huntsville, Alabama. Richard holds a Ph.D. in Industrial and Systems Engineering from the University of Alabama-Huntsville and is a registered Professional Engineer. He is a Certified Professional Ergonomist and a Certified Safety Professional and has 30 years' experience in Industrial Engineering, Quality Engineering, and Ergonomics.

**Abstract:** This presentation illustrates the use of how multiple disciplines within Industrial Engineering are used to solve one problem or issue. Industrial Engineering, within an academic framework can involve various techniques around work measurement, logistics, workplace safety, quality management, ergonomics, engineering economy and other disciplines to measure and improve processes. This presentation contains a case study of how these multiple disciplines are used together to solve one manufacturing issue.

**Keywords:** Industrial Engineering, Ergonomics, Lean, Safety